

IN THE CLAIMS

1 - 20 (Cancelled)

21. (New) A cutting tool for materials, in particular made of polyurethane elastomers, which is controllable manually or program-controlled, comprising a cutting head (10) with a driving device (20), a blade holder (30) and a cutting knife (35), wherein a separating agent (160) is introduced into the cut (180) produced in the material by its cutting head (10).
22. (New) A cutting tool for materials, in particular made of polyurethane elastomers, which is controllable manually or program-controlled, comprising a cutting head (10) with a driving device (20), a blade holder (30) and a cutting knife (35), wherein an anorganic or an organic fluorescent substance (160A) is introduced into the cut (180) produced in the material by the cutting head (10).
23. (New) A cutting tool for materials, in particular made of polyurethane elastomers, which is controllable manually or program-controlled, comprising a cutting head (10) with a driving device (20), a blade holder (30) and a cutting knife (35), wherein a metallic substance (160B) is introduced into the cut (180) produced in the material by the cutting head (10).

24. (New) A cutting tool according to claim 1, wherein a separating agent (160) and a fluorescent substance (160A) and/or a metallic substance (160B) is introduced by the cutting head (10) into the cut (180) produced in the material.
25. (New) A cutting tool according to claim 1, wherein a fluorescent substance (160A) and/or a metallic substance (160B) is added to the separating agent (160).
26. (New) A cutting tool according to claim 1, wherein the cutting tool (100) has a feeding pipe (150) placed on the cutting head (10) or in the cutting head (10) for a separating agent (160) and/or a fluorescent substance (160A), whereby the feeding pipe is connected at the one end (150a) with a preferably micro metering system (170) and the other end (150b) of which runs into the cutting knives (35).
27. (New) A cutting tool according to claim 1, wherein the feeding pipe (150) for the separating agent (160) is configured as a capillary hose (151) which runs into the blade holder (30) and which turns into a bore hole (155) which is formed in the blade holder (30) and in the cutting tool (35) and the outlet opening (156) of which lies in the cutting and separating area of the cutting knife (35).

28. (New) A cutting tool according to claim 1, wherein the outlet opening (156) of the bore hole (155) in the cutting knife (40) lies in a rounded taper (141) in one (142) of the corner areas of the cutting knife (35).
29. (New) A cutting tool according to claim 1, wherein the separating agent (160) is configured in such a way that it avoids an automatic new glueing together of the cut in the material of the cut.
30. (New) A cutting tool according to claim 1, wherein the separating agent (160) is made of a dispersion with waxes and silicones in a solvent mixture.
31. (New) A cutting tool according to claim 1, wherein anorganic or organic fluorescent substances in liquid or solid form are added to the separating agent (160).
32. (New) A cutting tool according to claim 1, wherein a substance with metallic properties, for example metal powder, is added to the separating agent (160), this substance clearly differing from the behaviour of plastics by ultrasonic influence or by other measuring methods.